CONTENTS OF VOLUME 24

Number 1

M. S. Jarial and **L. Engstrom** — 1 Fine structure of the spiracular glands in larval *Drosophila melanogaster* (Meig.) (Diptera: Drosophilidae)

S. Prakash, M. J. Mendki, K. M. Rao, K. Singh and **R. Naresh Singh** — 13 Sensilla on the maxillary and labial palps of the cockroach *Supella longipalpa* Fabricius (Dictyoptera: Blattellidae)

I. Foldi and **P. Lambdin** — 35 Ultrastructural and phylogenetic assessment of wax glands in pit scales (Homoptera: Coccoidea)

S. B. Ramaswamy, Shengqiang Shu, W. A. Monroe and **G. N. Mbata** — 51 Ultrastructure and potential role of integumentary glandular cells in adult male and female *Callosobruchus subinnotatus* (Pic) and *C. maculatus* (Fabricius) (Coleoptera: Bruchidae)

W. T. Wcislo — 63 Sensilla numbers and antennal morphology of parasitic and non-parasitic bees (Hymenoptera: Apoidea)

M. L. Chikilian, T. J. Bradley, J. K. Nayar, C. E. Cash-Clark and **J. W. Knight** — 83 Ultrastructure of the intracellular melanization of *Brugia malayi* (Buckley) (Nematoda: Filarioidea) in the thoracic muscles of *Anopheles quadrimaculatus* (Say) (Diptera: Culicidae)

E. J. Popham — 93 Feuerborn's hypothesis of hypopygial circumversion in schizophoran Diptera: a repetition and reappraisal of Schräder's (1927) studies

M. Carcupino and **A. Lucchi** — 109 Eggshell fine structure of *Bradysia aprica* (Winnertz) (Diptera: Sciaridae)

Number 2

P. Usha Rani and **S. S. Madhavendra** — 119 Morphology and distribution of antennal sense organs and diversity of mouthpart structures in *Odontopus nigricornis* (Stall) and *Nezara viridula* L. (Hemiptera)

H. E. Mellor and **M. Anderson** — 133 Antennal sensilla of whiteflies: *Trialeurodes vaporariorum* (Westwood), the glasshouse whitefly, *Aleyrodes proletella* (Linnaeus), the cabbage whitefly, and *Bemisia tabaci* (Gennadius), the tobacco whitefly (Homoptera: Aleyrodidae). Part 1: External morphology

H. E. Mellor and **M. Anderson** — 145 Antennal sensilla of whiteflies: *Trialeurodes vaporariorum* (Westwood), the glasshouse whitefly, and *Aleyrodes proletella* (Linnaeus), the cabbage whitefly, (Homoptera: Aleyrodidae). Part 2: Ultrastructure

R. Dallai and **B. A. Afzelius** — 161 Sperm structure of Trichoptera. II. The aflagellated spermatozoa of *Hydroptila, Orthotrichia* and *Stactobia* (Hydroptilidae)

R. Dallai, P. Lupetti and **B. A. Afzelius** — 171 Sperm structure of Trichoptera. III. Hydropsychidae, polycentropodidae and philopotamidae (Annulipalpia)

R. Dallai, P. Lupetti and **B. A. Afzelius** — 185 Sperm structure of Trichoptera. IV. Rhyacophilidae and Glossosomatidae

H. Fehrenbach — 195 Microanalysis of the egg shell of *Adela metallica* (Poda) (Lepidoptera: Adelidae) by energy-filtering transmission electron microscopy (EFTEM)

R. J. Elzinga and **T. L. Hopkins** — **203** Microspine variation in hindgut regions of four families of cockroaches (Blattaria)

C. Hamon and **G. Chauvin** — **213** Larval integument and its differentiations in *Micropterix calthella* L. (Lepidoptera: Micropterigidae): anatomy and ultrastructure

U. Noldt, R. Fettköther and **K. Dettner** — **223** Structure of the sex pheromone-producing prothoracic glands of the male old house borer, *Hylotrupes bajulus* (L.) (Coleoptera: Cerambycidae)

Scientific Note
R. J. Andrew and **D. B. Tembhare** — **235** Ultrastructural post-oviposition changes in the egg chorion of the dragon-fly, *Zyxomma petiolatum* Rambur (Odonata: Libellulidae)

239 Announcement

Number 3

H. F. Nijhout and **D. B. Rountree** — **243** Pattern induction across a homeotic boundary in the wings of *Precis coenia* (Hbn.)(Lepidoptera: Nymphalidae)

E. Rościszewska — **253** Oogenesis of stone flies. Development of the follicular epithelium and formation of the eggshell in ovaries of *Perla marginata* (Panzer) and *Perla pallida* Guérin (Plecoptera: Perlidae)

P. Sivasubramanian — **273** FMRFamide-like immunoreactivity in the isolated, *in vivo* cultured ventral ganglion of the fly, *Sarcophaga bullata* (Parker)(Diptera: Sarcophagidae)

G. Sahlén — **281** Eggshell ultrastructure in *Onychogomphus forcipatus unguiculatus* (Vander Linden) (Odonata: Gomphidae)

T. Tsutsumi, M. Matsuzaki and **K. Haga** — **287** Formation of germ cell cluster in tubuliferan thrips (Thysanoptera)

R. C. Rosell, J. E. Lichty and **J. K. Brown** — **297** Ultrastructure of the mouthparts of adult sweetpotato whitefly, *Bemisia tabaci* Gennadius (Homoptera: Aleyrodidae)

H. Jourdan, R. Barbier, J. Bernard and **A. Ferran** — **307** Antennal sensilla and sexual dimorphism of the adult ladybird beetle *Semiadalia undecimnotata* Schn. (Coleoptera: Coccinellidae)

E. Schoeters and **J. Billen** — **323** Morphology and ultrastructure of the convoluted gland in the ant *Dinoponera australis* (Hymenoptera: Formicidae)

J.-P. Nénon, G. Boivin and **M. R. Allo** — **333** Fine structure of the egg envelopes in *Listronotus oregonensis* (Leconte)(Coleoptera: Curculionidae) and morphological adaptations to oviposition sites

P. W. K. Ma and **W. L. Roelofs** — **343** Anatomy of the neurosecretory cells in the cerebral and subesophageal ganglia of the female European corn borer moth, *Ostrinia nubilalis* (Hübner)(Lepidoptera: Pyralidae)

361 Announcement

Number 4

N. Isidoro and **F. Bin** — **365** Male antennal gland of *Amitus spiniferus* (Brethes) (Hymenoptera : Platygastridae), likely involved in courtship behavior

B. Le Rü, S. Renard, M.-R. Allo, J. Le Lannic and **J. P. Rolland** — **375** Antennal sensilla and their possible functions in the host–plant selection behaviour of *Phenacoccus manihoti* (Matile-Ferrero) (Homoptera : Pseudococcidae)

M. J. Faucheux — **391** Sensilla on the larval antennae and mouthparts of the European sunflower moth, *Homoeosoma nebulella* Den. and Schiff. (Lepidoptera : Pyralidae)

A. Brockmann and **D. Brückner** — **405** Projection pattern of poreplate sensory neurones in honey bee worker, *Apis mellifera* L. (Hymenoptera : Apidae)

R. C. Rosell and **D. E. Wheeler** — **413** Storage function and ultrastructure of the adult fat body in workers of the ant *Camponotus festinatus* (Buckley) (Hymenoptera : Formicidae)

R. Fleig — **427** Role of the follicle cells for yolk uptake in ovarian follicles of the honey bee *Apis mellifera* L. (Hymenoptera : Apidae)

J.-L. Juang and **S. D. Carlson** — **435** X-ray microanalysis with transmission electron microscopy determined presence and movement of tracer (lanthanum chloride) at blood–neuron barrier of *Drosophila melanogaster* (Diptera : Drosophilidae) larva

S. M. Meola and **M. J. Loeb** — **443** Unique intertesticular tissue complex in larvae of *Heliothis virescens* (F.) (Lepidoptera : Noctuidae)

Scientific Note
A.-N. Volkoff, J. Daumal, P. Barry, M.-C. François, N. Hawlitzky and **M. M. Rossi** — **459** Development of *Trichogramma cacoeciae* Marchal (Hymenoptera : Trichogrammatidae): time table and evidence for a single larval instar

Title Section, Volume Contents and Author Index, Volume 24, 1995 — i